



## FM600G (2V600Ah)

**LONGWAY® FM600G** is a long service life battery up to 15 years expected life under normal float charge. As with all **LONGWAY®** batteries, all are rechargeable highly efficient, leak proof and maintenance free.



ISO 9001:2008 Standard



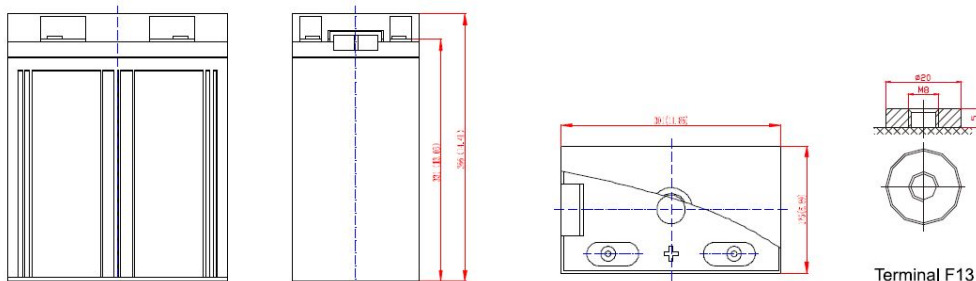
ISO 14001:2004 Standard



### Specifications:

Cells per Unit	1
Normal Voltage	2V
Capacity	600Ah@10Hr-rate to 1.80V per cell@25°C
Weight	Approx. (36.5±3%kg)(80.46lbs)
Maximum Discharge Current	3000A(5sec)
Internal Resistance	Approx. 0.62mΩ full charged @25°C
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Nominal Operating Temperature Range	25°C±3°C
Float Charging Voltage	2.25~2.30VDC/unit Average @25°C
Maximum Charging Current	180A
Equalization and Cycle Service	2.40V~2.45VDC/unit Average @ 25°C
Self Discharge	LONGWAY Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Thread insert & Bolt (F13)
Container Material	ABS(UL94-HB) *Flammability resistance of (UL94-V0) can be available upon request

### Dimensions: L302\*W175\*H340(TH365)mm



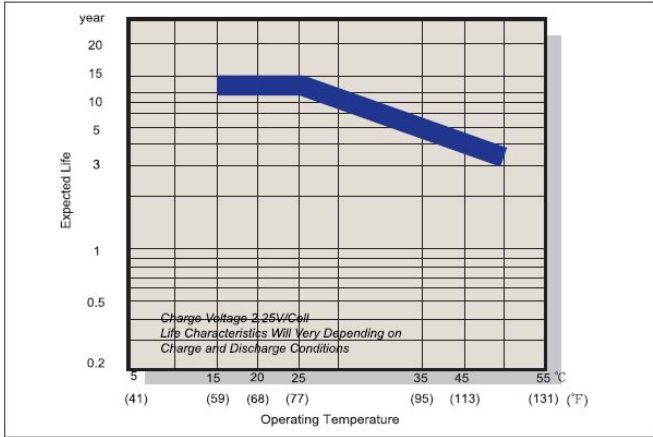
### Constant Current Discharge Characteristics (A, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	813	633	393	238	175	113	82	61	32.0	27.8
1.65	756	589	365	236	175	112	82	61	31.9	27.7
1.70	780	608	377	235	174	112	81	60	31.7	27.5
1.75	756	589	365	234	173	111	81	60	31.6	27.4
1.80	741	577	358	229	169	109	79	60	31.5	27.4

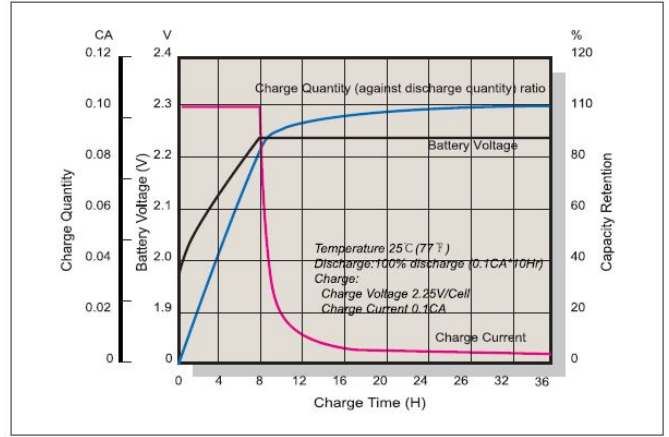
### Constant Power Discharge Characteristics (Watt, 25 °C)

F.V/TIME	15min	30min	60min	2h	3h	5h	8h	10h	20h	24h
1.60	1463	1171	753	437	346	224	164	122	64	55.5
1.65	1361	1089	700	435	345	223	163	122	64	55.4
1.70	1405	1124	722	433	343	222	162	121	63	55.0
1.75	1361	1089	700	431	341	221	162	120	63	54.9
1.80	1335	1068	686	422	334	216	158	120	63	54.7

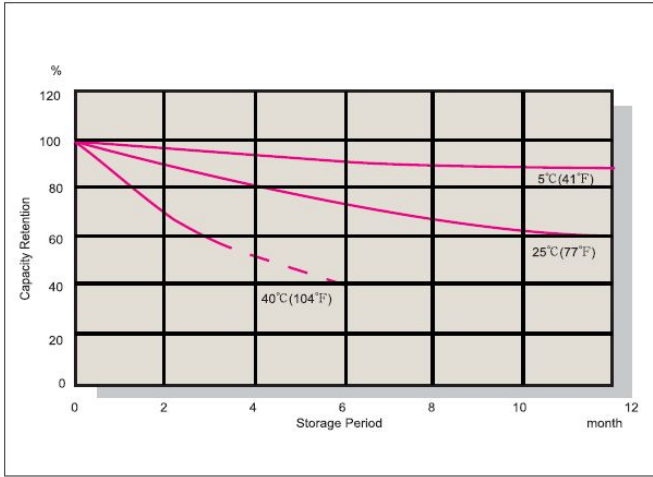
### Expected Life V.S Operating Temperature



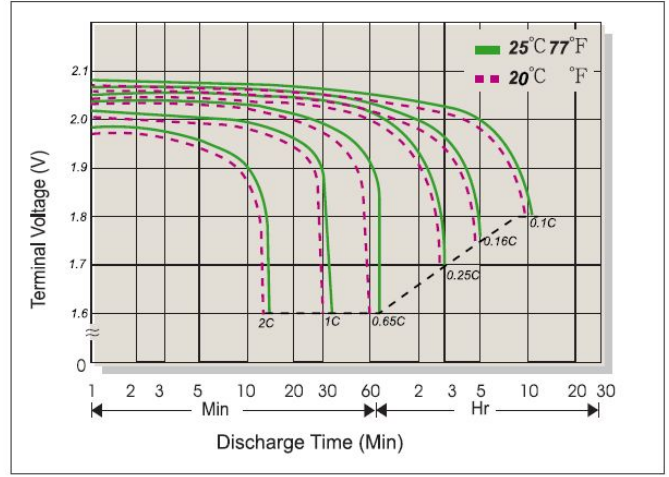
### Typical Constant Voltage Charge Characteristics



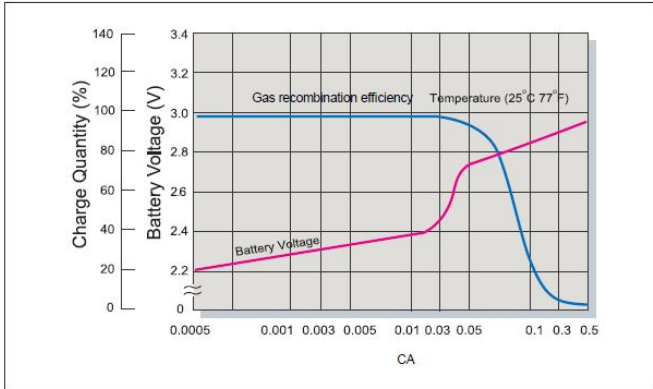
### Capacity Retention Characteristics



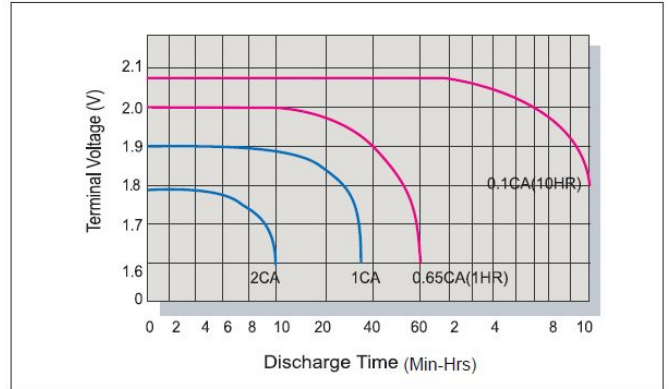
### Discharge Characteristics



### Oxygen Recombination Efficiency Chart



### Terminal Voltage (V) and Discharge Time 25°C (77°F)



### Charging Procedures

Application	Charge Voltage(V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.2C
Standby	25°C(77°F)	2.25	2.25~2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.80	1.75	1.70	1.60
Discharge Current (A)	0.1C≥(A)	0.1C<(A)	0.2C<(A)	(A)>0.4C

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